

**Notice of Allowability**

Application No.

09/535,859

Examiner

Jerome Grant II

Applicant(s)

ERNST ET AL.

Art Unit

2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11-09-2004.
2. ☒ The allowed claim(s) is/are 1-52.
3. ☒ The drawings filed on 22 October 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 12-12-2004.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

JEROME GRANT II  
EXAMINER

### Reasons for Allowance

1.

Claims 1, 2, 4 and 5 are allowed for the reason the prior art does not teach or suggest in claimed combination, "...for each subject pel, generating a sub-pulse width power to charge a sub-pel region within the subject pel based on a pattern of the surrounding pels on the subject pel, wherein the charged sub-el region is less than a region of the subject pel..."

Claims 3 and 7-14 are allowed for the reason the prior art does not teach or suggest in claimed combination, "... for each subject pel, generating position information indicating an alignment of the sub-pel region in the pel, wherein the position information is used to position the sub-pel region produced by the sub-pulse width power in the pel, and wherein the position in formation clusters the sub-pel region of adjacent pels in order to reduce electromagnetic radiation.

Claim 6 is allowed for the reason the prior art does not teach or suggest in claimed combination, "... for each subject pel, generating position information indicating an alignment of the sub-pel region in the pel, wherein the position information is sued to position the sub-pel region produced by the sub-pulse width power in the pel, and wherein the sub-pulse width power and position information is encoded in a look-up

Art Unit: 2626

table that provides one output sub-pulse width power and position information for an input subject pel and surrounding pel pattern. "

Claims 15, 16, 18 and 19 are allowed for the reason the prior art does not teach or suggest in claimed combination, "... means for generating, for each subject pel, a sub-pulse width power to charge a sub-pel region within the subject pel based on a pattern of the surrounding pels of the subject pel, wherein the charged sub-pel regions is less than a region of the subject pel...."

Claims 39, 40, 42, 43 and 45-52 are allowed for the reason the prior art does not teach or suggest in claimed combination, "for each subject pel, generating a sub-pulse width power to charge a sub-pel region within the subject pel based on a pattern of the surrounding pels of the subject pel, wherein the charged sub-pel region is less than a region of the subject pel."

Claims 17 and 21-28 are allowed for the reasons presented in the office action mailed Sept. 9, 2004.

Claims 29-32, 37 and 38 are allowed for the reason the prior art does not teach or suggest in claimed combination, " a plurality of output values, wherein one output

Art Unit: 2626

value is provided for at least one pattern of pells including a subject pel, wherein the output value is substituted for the subject pel, and wherein the output value comprises a sub-pulse width over to charge a sub-pel region within the subject pel, wherein the charged sub-pel region is less than a region of the subject pel, and position information indicating an alignment of the sub-pel region on the pel region in the pel, wherein the position information is used to position the sub-pel region produced by the sub-pulse width power in the pel.

Claim 20 is allowed for the reason presented in the office action mailed Sept. 9, 2004.

Claims 33-35 are allowed for the reasons presented in the office action mailed Sept. 9, 2004.

Claim 36 is allowed for the reasons presented in the office action mailed Sept. 9, 2004.

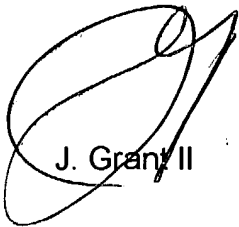
Art Unit: 2626

2.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Grant II whose telephone number is 703-305-4391. The examiner can normally be reached on Mon.-Fri. from 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A Williams, can be reached on 703-305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jerome Grant II  
Primary Examiner